

SequenceList US 235054.st25
SEQUENCE LISTING

<110> HIRAKAWA, Youko
NIKI, Hisae
OIKE, Shinsuke
TAGAWA, Toshiaki
HOSOKAWA, Saiko
YOSHIYAMA, Yoshiko

<120> Antibody recognizing antigen

<130> 235054

<150> PCT/JP2003/012732

<151> 2003-10-03

<150> JP 2002-291953

<151> 2002-10-04

<160> 22

<170> PatentIn version 3.1

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<213> Homo sapiens

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Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr
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Ser Thr Arg Leu Arg Gly Ala Asp Tyr
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Lys Ser Ser Gln Ser Val Leu Tyr Asn Ser Asn Asn Lys Lys Tyr Leu
1 5 10 15
Ala

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 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Cys
 20 25 30
 Gly Phe Tyr Trp Asn Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Ile Ser Leu Asp Thr Ser Lys Ser Gln Phe
 65 70 75 80
 Ser Leu Lys Leu Ser Ser Leu Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Ser Thr Arg Leu Arg Gly Ala Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Met Val Thr Val Ser Ser
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 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
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 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Asn
 20 25 30
 Ser Asn Asn Lys Lys Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95
 Tyr Tyr Ser Thr Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110
 Lys Arg

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Leu Val Trp Val Pro Ser Asp Lys
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Glu Gln Ala Asp Phe Ala Ile Glu Ala Leu Ala Lys
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Asp Val Asp Arg Ile Ile Gly Leu Asp Gln Val Ala Gly Met Ser Glu
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Thr

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Thr Glu Leu Glu Asp Thr Leu Asp Ser Thr Ala Ala Gln Gln Glu
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Ala Leu Glu Ser Gln Leu Gln Asp Thr Gln Glu Leu
1 5 10

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Ser Met Glu Ala Glu Met Ile Gln Leu Gln Glu Glu Leu Ala Ala Ala
1 5 10 15

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Arg Arg Leu Glu Ala Arg Ile Ala Gln Leu Glu Glu Glu Leu Glu Glu
1 5 10 15

Glu

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Met Ala Gln Gln Ala Ala Asp Lys Tyr Leu Tyr Val Asp Lys Asn Phe
1 5 10 15

Ile Asn Asn Pro Leu Ala Gln Ala Asp Trp Ala Ala Lys Lys Leu Val
20 25 30

Trp Val Pro Ser Asp Lys Ser Gly Phe Glu Pro Ala Ser Leu Lys Glu
35 40 45

Glu Val Gly Glu Glu Ala Ile Val Glu Leu Val Glu Asn Gly Lys Lys
50 55 60

Val Lys Val Asn Lys Asp Asp Ile Gln Lys Met Asn Pro Pro Lys Phe
65 70 75 80

Ser Lys Val Glu Asp Met Ala Glu Leu Thr Cys Leu Asn Glu Ala Ser
85 90 95

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Val Leu His Asn Leu Lys Glu Arg Tyr Tyr Ser Gly Leu Ile Tyr Thr
100 105 110

Tyr Ser Gly Leu Phe Cys Val Val Ile Asn Pro Tyr Lys Asn Leu Pro
115 120 125

Ile Tyr Ser Glu Glu Ile Val Glu Met Tyr Lys Gly Lys Lys Arg His
130 135 140

Glu Met Pro Pro His Ile Tyr Ala Ile Thr Asp Thr Ala Tyr Arg Ser
145 150 155 160

Met Met Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys Thr Gly Glu Ser
165 170 175

Gly Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile Gln Tyr Leu Ala
180 185 190

Tyr Val Ala Ser Ser His Lys Ser Lys Lys Asp Gln Gly Glu Leu Glu
195 200 205

Arg Gln Leu Leu Gln Ala Asn Pro Ile Leu Glu Ala Phe Gly Asn Ala
210 215 220

Lys Thr Val Lys Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe Ile Arg
225 230 235 240

Ile Asn Phe Asp Val Asn Gly Tyr Ile Val Gly Ala Asn Ile Glu Thr
245 250 255

Tyr Leu Leu Glu Lys Ser Arg Ala Ile Arg Gln Ala Lys Glu Glu Arg
260 265 270

Thr Phe His Ile Phe Tyr Tyr Leu Leu Ser Gly Ala Gly Glu His Leu
275 280 285

Lys Thr Asp Leu Leu Leu Glu Pro Tyr Asn Lys Tyr Arg Phe Leu Ser
290 295 300

Asn Gly His Val Thr Ile Pro Gly Gln Gln Asp Lys Asp Met Phe Gln
305 310 315 320

Glu Thr Met Glu Ala Met Arg Ile Met Gly Ile Pro Glu Glu Glu Gln
325 330 335

Met Gly Leu Leu Arg Val Ile Ser Gly Val Leu Gln Leu Gly Asn Ile

340

Val Phe Lys Lys Glu Arg Asn Thr Asp Gln Ala Ser Met Pro Asp Asn
355 360 365

Thr Ala Ala Gln Lys Val Ser His Leu Leu Gly Ile Asn Val Thr Asp
370 375 380

Phe Thr Arg Gly Ile Leu Thr Pro Arg Ile Lys Val Gly Arg Asp Tyr
385 390 395 400

Val Gln Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Ile Glu Ala
405 410 415

Leu Ala Lys Ala Thr Tyr Glu Arg Met Phe Arg Trp Leu Val Leu Arg
420 425 430

Ile Asn Lys Ala Leu Asp Lys Thr Lys Arg Gln Gly Ala Ser Phe Ile
435 440 445

Gly Ile Leu Asp Ile Ala Gly Phe Glu Ile Phe Asp Leu Asn Ser Phe
450 455 460

Glu Gln Leu Cys Ile Asn Tyr Thr Asn Glu Lys Leu Gln Gln Leu Phe
465 470 475 480

Asn His Thr Met Phe Ile Leu Glu Gln Glu Glu Tyr Gln Arg Glu Gly
485 490 495

Ile Glu Trp Asn Phe Ile Asp Phe Gly Leu Asp Leu Gln Pro Cys Ile
500 505 510

Asp Leu Ile Glu Lys Pro Ala Gly Pro Pro Gly Ile Leu Ala Leu Leu
515 520 525

Asp Glu Glu Cys Trp Phe Pro Lys Ala Thr Asp Lys Ser Phe Val Glu
530 535 540

Lys Val Met Gln Glu Gln Gly Thr His Pro Lys Phe Gln Lys Pro Lys
545 550 555 560

Gln Leu Lys Asp Lys Ala Asp Phe Cys Ile Ile His Tyr Ala Gly Lys
565 570 575

Val Asp Tyr Lys Ala Asp Glu Trp Leu Met Lys Asn Met Asp Pro Leu
580 585 590

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Asn Asp Asn Ile Ala Thr Leu Leu His Gln Ser Ser Asp Lys Phe Val
595 600 605

Ser Glu Leu Trp Lys Asp Val Asp Arg Ile Ile Gly Leu Asp Gln Val
610 615 620

Ala Gly Met Ser Glu Thr Ala Leu Pro Gly Ala Phe Lys Thr Arg Lys
625 630 635 640

Gly Met Phe Arg Thr Val Gly Gln Leu Tyr Lys Glu Gln Leu Ala Lys
645 650 655

Leu Met Ala Thr Leu Arg Asn Thr Asn Pro Asn Phe Val Arg Cys Ile
660 665 670

Ile Pro Asn His Glu Lys Lys Ala Gly Lys Leu Asp Pro His Leu Val
675 680 685

Leu Asp Gln Leu Arg Cys Asn Gly Val Leu Glu Gly Ile Arg Ile Cys
690 695 700

Arg Gln Gly Phe Pro Asn Arg Val Val Phe Gln Glu Phe Arg Gln Arg
705 710 715 720

Tyr Glu Ile Leu Thr Pro Asn Ser Ile Pro Lys Gly Phe Met Asp Gly
725 730 735

Lys Gln Ala Cys Val Leu Met Ile Lys Ala Leu Glu Leu Asp Ser Asn
740 745 750

Leu Tyr Arg Ile Gly Gln Ser Lys Val Phe Phe Arg Ala Gly Val Leu
755 760 765

Ala His Leu Glu Glu Glu Arg Asp Leu Lys Ile Thr Asp Val Ile Ile
770 775 780

Gly Phe Gln Ala Cys Cys Arg Gly Tyr Leu Ala Arg Lys Ala Phe Ala
785 790 795 800

Lys Arg Gln Gln Gln Leu Thr Ala Met Lys Val Leu Gln Arg Asn Cys
805 810 815

Ala Ala Tyr Leu Lys Leu Arg Asn Trp Gln Trp Trp Arg Leu Phe Thr
820 825 830

Lys Val Lys Pro Leu Leu Gln Val Ser Arg Gln Glu Glu Glu Met Met
835 840 845

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Ala Lys Glu Glu Glu Leu Val Lys Val Arg Glu Lys Gln Leu Ala Ala
850 855 860

Glu Asn Arg Leu Thr Glu Met Glu Thr Leu Gln Ser Gln Leu Met Ala
865 870 875 880

Glu Lys Leu Gln Leu Gln Glu Gln Leu Gln Ala Glu Thr Glu Leu Cys
885 890 895

Ala Glu Ala Glu Glu Leu Arg Ala Arg Leu Thr Ala Lys Lys Gln Glu
900 905 910

Leu Glu Glu Ile Cys His Asp Leu Glu Ala Arg Val Glu Glu Glu Glu
915 920 925

Glu Arg Cys Gln His Leu Gln Ala Glu Lys Lys Lys Met Gln Gln Asn
930 935 940

Ile Gln Glu Leu Glu Glu Gln Leu Glu Glu Glu Glu Ser Ala Arg Gln
945 950 955 960

Lys Leu Gln Leu Glu Lys Val Thr Thr Glu Ala Lys Leu Lys Lys Leu
965 970 975

Glu Glu Glu Gln Ile Ile Leu Glu Asp Gln Asn Cys Lys Leu Ala Lys
980 985 990

Glu Lys Lys Leu Leu Glu Asp Arg Ile Ala Glu Phe Thr Thr Asn Leu
995 1000 1005

Thr Glu Glu Glu Glu Lys Ser Lys Ser Leu Ala Lys Leu Lys Asn
1010 1015 1020

Lys His Glu Ala Met Ile Thr Asp Leu Glu Glu Arg Leu Arg Arg
1025 1030 1035

Glu Glu Lys Gln Arg Gln Glu Leu Glu Lys Thr Arg Arg Lys Leu
1040 1045 1050

Glu Gly Asp Ser Thr Asp Leu Ser Asp Gln Ile Ala Glu Leu Gln
1055 1060 1065

Ala Gln Ile Ala Glu Leu Lys Met Gln Leu Ala Lys Lys Glu Glu
1070 1075 1080

Glu Leu Gln Ala Ala Leu Ala Arg Val Glu Glu Glu Ala Ala Gln
1085 1090 1095

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Lys	Asn	Met	Ala	Leu	Lys	Lys	Ile	Arg	Glu	Leu	Glu	Ser	Gln	Ile
	1100					1105					1110			
Ser	Glu	Leu	Gln	Glu	Asp	Leu	Glu	Ser	Glu	Arg	Ala	Ser	Arg	Asn
	1115					1120					1125			
Lys	Ala	Glu	Lys	Gln	Lys	Arg	Asp	Leu	Gly	Glu	Glu	Leu	Glu	Ala
	1130					1135					1140			
Leu	Lys	Thr	Glu	Leu	Glu	Asp	Thr	Leu	Asp	Ser	Thr	Ala	Ala	Gln
	1145					1150					1155			
Gln	Glu	Leu	Arg	Ser	Lys	Arg	Glu	Gln	Glu	Val	Asn	Ile	Leu	Lys
	1160					1165					1170			
Lys	Thr	Leu	Glu	Glu	Glu	Ala	Lys	Thr	His	Glu	Ala	Gln	Ile	Gln
	1175					1180					1185			
Glu	Met	Arg	Gln	Lys	His	Ser	Gln	Ala	Val	Glu	Glu	Leu	Ala	Glu
	1190					1195					1200			
Gln	Leu	Glu	Gln	Thr	Lys	Arg	Val	Lys	Ala	Asn	Leu	Glu	Lys	Ala
	1205					1210					1215			
Lys	Gln	Thr	Leu	Glu	Asn	Glu	Arg	Gly	Glu	Leu	Ala	Asn	Glu	Val
	1220					1225					1230			
Lys	Val	Leu	Leu	Gln	Gly	Lys	Gly	Asp	Ser	Glu	His	Lys	Arg	Lys
	1235					1240					1245			
Lys	Val	Glu	Ala	Gln	Leu	Gln	Glu	Leu	Gln	Val	Lys	Phe	Asn	Glu
	1250					1255					1260			
Gly	Glu	Arg	Val	Arg	Thr	Glu	Leu	Ala	Asp	Lys	Val	Thr	Lys	Leu
	1265					1270					1275			
Gln	Val	Glu	Leu	Asp	Asn	Val	Thr	Gly	Leu	Leu	Ser	Gln	Ser	Asp
	1280					1285					1290			
Ser	Lys	Ser	Ser	Lys	Leu	Thr	Lys	Asp	Phe	Ser	Ala	Leu	Glu	Ser
	1295					1300					1305			
Gln	Leu	Gln	Asp	Thr	Gln	Glu	Leu	Leu	Gln	Glu	Glu	Asn	Arg	Gln
	1310					1315					1320			
Lys	Leu	Ser	Leu	Ser	Thr	Lys	Leu	Lys	Gln	Val	Glu	Asp	Glu	Lys

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1325						1330							
Asn	Ser	Phe	Arg	Glu	Gln	Leu	Glu	Glu	Glu	Glu	Ala	Lys	His
1340						1345				1350			
Asn	Leu	Glu	Lys	Gln	Ile	Ala	Thr	Leu	His	Ala	Gln	Val	Ala
1355						1360					1365		Asp
Met	Lys	Lys	Lys	Met	Glu	Asp	Ser	Val	Gly	Cys	Leu	Glu	Thr
1370						1375					1380		Ala
Glu	Glu	Val	Lys	Arg	Lys	Leu	Gln	Lys	Asp	Leu	Glu	Gly	Leu
1385						1390					1395		Ser
Gln	Arg	His	Glu	Glu	Lys	Val	Ala	Ala	Tyr	Asp	Lys	Leu	Glu
1400						1405					1410		Lys
Thr	Lys	Thr	Arg	Leu	Gln	Gln	Glu	Leu	Asp	Asp	Leu	Leu	Val
1415						1420					1425		Asp
Leu	Asp	His	Gln	Arg	Gln	Ser	Ala	Cys	Asn	Leu	Glu	Lys	Lys
1430						1435					1440		Gln
Lys	Lys	Phe	Asp	Gln	Leu	Leu	Ala	Glu	Glu	Lys	Thr	Ile	Ser
1445						1450					1455		Ala
Lys	Tyr	Ala	Glu	Glu	Arg	Asp	Arg	Ala	Glu	Ala	Glu	Ala	Arg
1460						1465					1470		Glu
Lys	Glu	Thr	Lys	Ala	Leu	Ser	Leu	Ala	Arg	Ala	Leu	Glu	Glu
1475						1480					1485		Ala
Met	Glu	Gln	Lys	Ala	Glu	Leu	Glu	Arg	Leu	Asn	Lys	Gln	Phe
1490						1495					1500		Arg
Thr	Glu	Met	Glu	Asp	Leu	Met	Ser	Ser	Lys	Asp	Asp	Val	Gly
1505						1510					1515		Lys
Ser	Val	His	Glu	Leu	Glu	Lys	Ser	Lys	Arg	Ala	Leu	Glu	Gln
1520						1525					1530		Gln
Val	Glu	Glu	Met	Lys	Thr	Gln	Leu	Glu	Glu	Leu	Glu	Asp	Glu
1535						1540					1545		Leu
Gln	Ala	Thr	Glu	Asp	Ala	Lys	Leu	Arg	Leu	Glu	Val	Asn	Leu
1550						1555					1560		Gln

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Ala	Met	Lys	Ala	Gln	Phe	Glu	Arg	Asp	Leu	Gln	Gly	Arg	Asp	Glu
	1565					1570					1575			
Gln	Ser	Glu	Glu	Lys	Lys	Lys	Gln	Leu	Val	Arg	Gln	Val	Arg	Glu
	1580					1585					1590			
Met	Glu	Ala	Glu	Leu	Glu	Asp	Glu	Arg	Lys	Gln	Arg	Ser	Met	Ala
	1595					1600					1605			
Val	Ala	Ala	Arg	Lys	Lys	Leu	Glu	Met	Asp	Leu	Lys	Asp	Leu	Glu
	1610					1615					1620			
Ala	His	Ile	Asp	Ser	Ala	Asn	Lys	Asn	Arg	Asp	Glu	Ala	Ile	Lys
	1625					1630					1635			
Gln	Leu	Arg	Lys	Leu	Gln	Ala	Gln	Met	Lys	Asp	Cys	Met	Arg	Glu
	1640					1645					1650			
Leu	Asp	Asp	Thr	Arg	Ala	Ser	Arg	Glu	Glu	Ile	Leu	Ala	Gln	Ala
	1655					1660					1665			
Lys	Glu	Asn	Glu	Lys	Lys	Leu	Lys	Ser	Met	Glu	Ala	Glu	Met	Ile
	1670					1675					1680			
Gln	Leu	Gln	Glu	Glu	Leu	Ala	Ala	Ala	Glu	Arg	Ala	Lys	Arg	Gln
	1685					1690					1695			
Ala	Gln	Gln	Glu	Arg	Asp	Glu	Leu	Ala	Asp	Glu	Ile	Ala	Asn	Ser
	1700					1705					1710			
Ser	Gly	Lys	Gly	Ala	Leu	Ala	Leu	Glu	Glu	Lys	Arg	Arg	Leu	Glu
	1715					1720					1725			
Ala	Arg	Ile	Ala	Gln	Leu	Glu	Glu	Glu	Leu	Glu	Glu	Glu	Gln	Gly
	1730					1735					1740			
Asn	Thr	Glu	Leu	Ile	Asn	Asp	Arg	Leu	Lys	Lys	Ala	Asn	Leu	Gln
	1745					1750					1755			
Ile	Asp	Gln	Ile	Asn	Thr	Asp	Leu	Asn	Leu	Glu	Arg	Ser	His	Ala
	1760					1765					1770			
Gln	Lys	Asn	Glu	Asn	Ala	Arg	Gln	Gln	Leu	Glu	Arg	Gln	Asn	Lys
	1775					1780					1785			
Glu	Leu	Lys	Val	Lys	Leu	Gln	Glu	Met	Glu	Gly	Thr	Val	Lys	Ser
	1790					1795					1800			

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Lys Tyr Lys Ala Ser Ile Thr Ala Leu Glu Ala Lys Ile Ala Gln
 1805 1810 1815
 Leu Glu Glu Gln Leu Asp Asn Glu Thr Lys Glu Arg Gln Ala Ala
 1820 1825 1830
 Cys Lys Gln Val Arg Arg Thr Glu Lys Lys Leu Lys Asp Val Leu
 1835 1840 1845
 Leu Gln Val Asp Asp Glu Arg Arg Asn Ala Glu Gln Tyr Lys Asp
 1850 1855 1860
 Gln Ala Asp Lys Ala Ser Thr Arg Leu Lys Gln Leu Lys Arg Gln
 1865 1870 1875
 Leu Glu Glu Ala Glu Glu Glu Ala Gln Arg Ala Asn Ala Ser Arg
 1880 1885 1890
 Arg Lys Leu Gln Arg Glu Leu Glu Asp Ala Thr Glu Thr Ala Asp
 1895 1900 1905
 Ala Met Asn Arg Glu Val Ser Ser Leu Lys Asn Lys Leu Arg Arg
 1910 1915 1920
 Gly Asp Leu Pro Phe Val Val Pro Arg Arg Met Ala Arg Lys Gly
 1925 1930 1935
 Ala Gly Asp Gly Ser Asp Glu Glu Val Asp Gly Lys Ala Asp Gly
 1940 1945 1950
 Ala Glu Ala Lys Pro Ala Glu
 1955 1960

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 cgggtaccat ggcacagcaa gctgcc

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<210> 19
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 <213> Homo Sapiens

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26

<210> 20

SequenceList US 235054.st25

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 Glu Glu Leu Val Lys Val Arg Glu Lys Gln
 5 10

<210> 22
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 <213> Homo sapiens

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 5 10